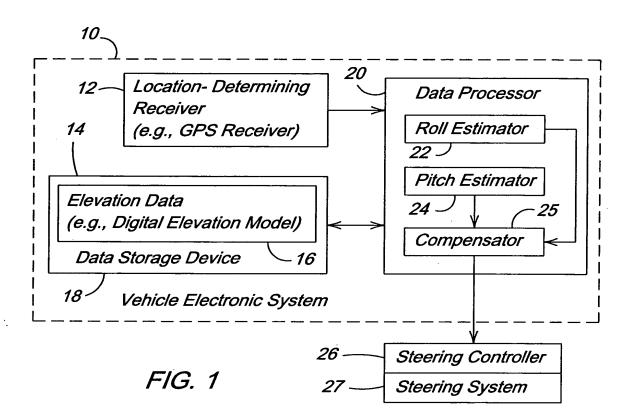
TITLE: VEHICULAR GUIDANCE SYSTEM HAVING COMPENSATION FOR VARIATIONS IN GROUND ELEVATION INVENTOR: SHUFENG HAN, et. al. DOCKET #: 16569 /deb, mah

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-*S100*

ESTABLISH ELEVATION DATA AND CORRESPONDING LOCATION DATA FOR A WORK AREA.

S.102

DETERMINE LOCATION DATA, INCLUDING A PARTICULAR LOCATION, OF A VEHICLE WITHIN THE WORK AREA FOR A VEHICLE EXECUTING A PLANNED PATH.

-S104

ESTIMATE AT LEAST ONE OF ROLL DATA AND PITCH DATA BASED ON THE DETERMINED PARTICULAR LOCATION AND THE ESTABLISHED ELEVATION DATA (E.G., DIGITAL ELEVATION MAP).

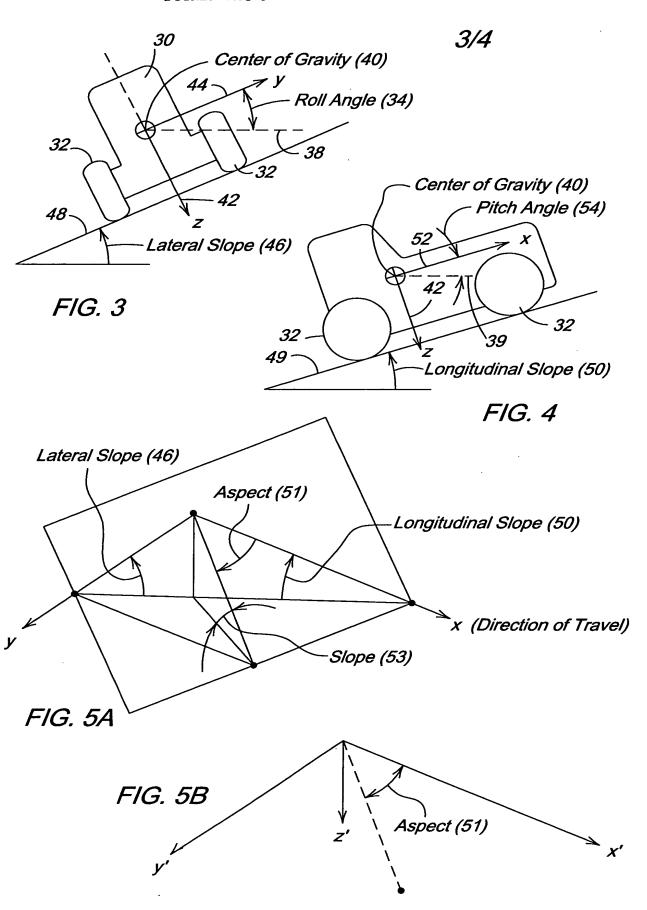
-*S106*

PROVIDE COMPENSATION DATA BASED UPON AT LEAST ONE OF THE FOLLOWING: (1) ESTIMATED ROLL DATA, (2) ESTIMATED PITCH DATA, (3) DETERMINED LOCATION DATA OF THE VEHICLE SUCH THAT THE VEHICLE FOLLOWS A DESIRED PATH.

-S108

CONTROL A STEERING SYSTEM WITH THE COMPENSATION DATA AND LOCATION DATA FROM THE LOCATION-DETERMINING RECEIVER SUCH THAT THE VEHICLE TRACKS A PLANNED PATH (E.G., A GENERALLY LINEAR PATH), REGARDLESS OF HILLS OR OTHER FLUCTUATIONS IN THE ELEVATION OF THE TERRAIN.

TITLE: VEHICULAR GUIDANCE SYSTEM HAVING COMPENSATION FOR VARIATIONS IN GROUND ELEVATION INVENTOR: SHUFENG HAN, et. al. DOCKET #: 16569 /deb. mah



3.4

TITLE: VEHICULAR GUIDANCE SYSTEM HAVING COMPENSATION FOR VARIATIONS IN GROUND ELEVATION

INVENTOR: SHUFENG HAN, et. al. DOCKET *: 16569 /deb, mah

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FIG.	0

E 1, 1	E 1, 2	E 1, 3	E 1, 4	E 1, 5
L 1, 1	L 1, 2	L 1, 3	L 1, 4	L 1, 5
E 2, 1	E 2, 2	E2,3	E 2, 4	E 2, 5
L 2, 1	L 2, 2	L 2, 3	L 2, 4	L 2, 5
E 3, 1	E 3, 2	E 3, 3	E 3, 4	E 3, 5
L 3, 1	L 3, 2	L 3, 3	L 3, 4	L 3, 5
E4, 1	E4,2	E 4, 3	E 4, 4	E4,5
L 4, 1	L 4, 2	L 4, 3	L 4, 4	L 4, 5
E 5, 1	E 5, 2	E 5, 3	E 5, 4	E 5, 5
L 5, 1	L 5, 2	L 5, 3	L 5, 4	L 5, 5

Elevation Data (E) vs. Location Data (L)

	L
	Г
	- 1
	- 1
	- 1
	- 1

FIG. 7

E 1, 1	E 1, 2	E 1, 3	E 1, 4	E 1, 5	E 1, 6
L 1, 1	L 1, 2	L 1, 3	L 1, 4	L 1, 5	L 1, 6
S 1, 1	S 1, 2	S 1, 3	S 1, 4	S 1, 5	S 1, 6
A 1, 1	A 1, 2	A 1, 3	A 1, 4	A 1, 5	A 1, 6
E 2, 1	E 2, 2	E2,3	E 2, 4	E 2, 5	E 2, 6
L 2, 1	L 2, 2	L 2, 3	L 2, 4	L 2, 5	L 2, 6
S 2, 1	S 2, 2	S 2, 3	S 2, 4	S 2, 5	S 2, 6
A 2, 1	A 2, 2	A 2, 3	A 2, 4	A 2, 5	A 2, 6
E 3, 1	E 3, 2	E 3, 3	E 3, 4	E 3, 5	E 3, 6
L 3, 1	L 3, 2	L 3, 3	L 3, 4	L 3, 5	L 3, 6
S 3, 1	S 3, 2	S 3, 3	S 3, 4	S 3, 5	S 3, 6
A 3, 1	A 3, 2	A 3, 3	A 3, 4	A 3, 5	A 3, 6
E 4, 1	E 4, 2	E 4, 3	E 4, 4	E 4, 5	E 4, 6
L 4, 1	L 4, 2	L 4, 3	L 4, 4	L 4, 5	L 4, 6
S 4, 1	S 4, 2	S 4, 3	S 4, 4	S 4, 5	S 4, 6
A 4, 1	A 4, 2	A 4, 3	A 4, 4	A 4, 5	A 4, 6

Elevation Data, Slope Data and Aspect Data vs. Location Data